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 TI Manufacture of composition for preparing cellular fly  
 ash-concrete for walls and heat-insulating structures  
 IN Belov, V. V.; Kulagin, Yu. V.; Gevorkyan, V. A.  
 PA Russia  
 SO Russ., No pp. given  
 CODEN: RUXXE7  
 DT Patent  
 LA Russian  
 IC ICM C04B038-02  
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 CC 58-2 (Cement, Concrete, and Related Building Materials)  
 FAN.CNT 1

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AB The compn. comprises cement 25.6-32.8, fly ash  
 from thermoelec. plant 32.7-41, sodium sulfate 0.51-0.66, foaming agent  
 (e.g., aluminum powder) 0.1-0.26, and tempering water in the  
 balance. Sodium sulfate is used as alkali additive and hardening agent.  
 The manuf. comprises (a) prepg. a viscous raw mix of components, (b)  
 pre-activating fly ash, (c) swelling raw mix, (d)  
 hardening during evapn. or under normal conditions, and (e) activating  
 fly ash by combined grinding of all dry mix components  
 for 20-40 min. Prior to grinding, dry superplasticizer S-3 in amt. of  
 0.7-1% of cement wt. is added into the mix, and sulfanol  
 surfactant is added into tempering water in amt. of 0.2-0.5% of  
 water. The method improves properties of the compn.  
 ST cellular concrete cement fly ash thermal  
 insulator wall